EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S114	18	sms with configur$5 and configur$5 near messag$3 and @ad<"20010427"	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 16:27
S113	142	sms with configur$5 and configur$5 near messag$3	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 16:27
S112	1217	sms with configur$5	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 16:27
S111	100	(709/225.ccls.) and (identif$7 with (source or sender)) and (security with (role$1 or level$1 or privilege$1))	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 16:26
S110	40	(709/220-222.ccls.) and (identif$7 with (source or sender)) and (security with (role$1 or level$1 or privilege$1))	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 16:13
S109	420	(709/220-222.ccls.) and (identif$7 with (source or sender))	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 16:00
S108	3756	709/220-222.ccls.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 15:59
S107	1	(router and security adj role and configuration).clm.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 15:59
S106	1	(router and security adj role and configuration and mobile).clm.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 15:25
S105	9	(microsoft.as. or shell-scott.in. or butler-lee.in.) and (router and security adj role and configuration and mobile)	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 15:24
S104	13895	microsoft.as. or shell-scott.in. or butler-lee.in.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 15:02
S2	45	remote adj configuration same security	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 15:01
S103	147	726/14.ccls. and @ad<"20010427"	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 13:57
S102	283	726/14.ccls.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 13:57

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EAST Search History

S10 1	59	726/4.ccls. and ($phone$1 or mobile or portable) with (configuration$1 or settings)	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 13:57
S10 0	547	726/4.ccls. and ($phone$1 or mobile or portable) and (configuration$1 or settings)	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 13:50
S99	799	726/4.ccls. and ($phone$1 or mobile or portable)	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 13:47
S98	1272	726/4.ccls.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 13:46
S97	122	726/28.ccls. and @ad<"20010427"	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 13:46
S96	295	726/28.ccls.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 13:25
S95	918	455/419.ccls.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 13:25
S94	372	713/166.ccls.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2006/11/17 10:52
S93	121	S91 not S92	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/11/17 10:16
S92	30	remot$2 near configur$6 and security adj (level$1 or roles or credential$1) with message$1	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/11/17 10:16
S91	151	remot$2 near configur$6 and security adj (level$1 or roles or credential$1)	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/11/17 10:15
S90	4939	remot$2 near configur$6	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/11/17 10:14
S89	118	((configuration or settings) with manager) same (security with (credential$1 or role$1 or level$1))	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/11/17 10:14
S88	6	router same ((configuration or settings) with manager) same (security with (credential$1 or role$1 or level$1))	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/11/17 09:56

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	17	(713/166.ccls. or 726/14.ccls. or 726/28.ccls. or 455/419.ccls.) and (((security adj (role$1 or level$1)) and (configur$5 or setting$1))). clm.	US-PGPUB	OR	OFF	2006/11/20 13:39

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1 Demons seeking dæmons-a practical approach to hardening your openSSH configuration
Phil Moses
March 2006 **Linux Journal**, Volume 2006 Issue 143
Publisher: Specialized Systems Consultants, Inc.
Full text available: 🗐 html(18.57 KB)   Additional Information: full citation, abstract, index terms

  Don't wait until you have to exorcise a dæmon seeking to possess your SSH server.

2 Ad hoc network: A security design for a general purpose, self-organizing, multihop ad hoc wireless network
Thomas S. Messerges, Johnas Cukier, Tom A. M. Kevenaar, Larry Puhl, René Struik, Ed Callaway
October 2003 **Proceedings of the 1st ACM workshop on Security of ad hoc and sensor networks**
Publisher: ACM Press
Full text available: 🗐 pdf(353.25 KB)   Additional Information: full citation, abstract, references, index terms

  We present a security design for a general purpose, self-organizing, multihop ad hoc wireless network, based on the IEEE 802.15.4 low-rate wireless personal area network standard. The design employs elliptic-curve cryptography and the AES block cipher to supply message integrity and encryption services, key-establishment protocols, and a large set of extended security services, while at the same time meeting the low implementation cost, low power, and high flexibility requirements of ad hoc wire ...

  Keywords: 802.15.4, ad hoc networks, security, wireless

3 Educational environments: Resource management portal for laboratories using real devices on the Internet
Stefan Zimmerli, Marc-Alain Steinemann, Torsten Braun
July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3
Publisher: ACM Press
Full text available: 🗐 pdf(343.16 KB)   Additional Information: full citation, abstract, references, index terms

  Internet-based distance learning is slowly gaining new territories and substituting current teaching methodologies. However, distance learning not only consists of transferring documents to web pages, but also of developing new concepts, methods, and implementation architectures. This article presents concepts and implementation issues for an example remote hands-on networking laboratory. The described course gives access to real network hardware via the Internet. In particular, authentication, ...

4 Attestation and binding: Linking remote attestation to secure tunnel endpoints

Kenneth Goldman, Ronald Perez, Reiner Sailer

November 2006 **Proceedings of the first ACM workshop on Scalable trusted computing STC '06**

Publisher: ACM Press

Full text available: pdf(430.15 KB)   Additional Information: full citation, abstract, references, index terms

Client-Server applications have become the backbone of the Internet and are processing increasingly sensitive information. We have come to rely on the correct behavior and trustworthiness of online banking, online shopping, and other remote access services. These services are implemented as cooperating processes on different platforms. To trust distributed services, one must trust each cooperating process and their interconnection.Common practice today is to establish secure tunnels to protect t ...

Keywords: certificates, trusted platform module

5 File-system development with stackable layers

John S. Heidemann, Gerald J. Popek

February 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(2.16 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Filing services have experienced a number of innovations in recent years, but many of these promising ideas have failed to enter into broad use. One reason is that current filing environments present several barriers to new development. For example, file systems today typically stand alone instead of building on the work of others, and support of new filing services often requires changes that invalidate existing work. Stackable file-system design addresses these issues in severa ...

Keywords: composability, file system design, operating system structure, reuse

6 Information security: Information security labs in IDS/IPS for distance education

Hilmi A. Lahoud, Xin Tang

October 2006 **Proceedings of the 7th conference on Information technology education SIGITE '06**

Publisher: ACM Press

Full text available: pdf(1.34 MB)   Additional Information: full citation, abstract, references, index terms

To extend computer and information security technology courses into distance education (DE) program, one must provide online solutions for remote students to do hands-on experiments. Considering there are few solutions available, particularly in intrusion detection (IDS) / intrusion prevention (IPS) technology education programs, we evaluated the basic design criteria and developed a remote lab environment. It has been shown that the designed remote lab is capable of accommodating both individua ...

Keywords: distance learning, online labs, remote labs

7 DRM, trusted computing and operating system architecture

Jason F. Reid, William J. Caelli

January 2005 **Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44 ACSW Frontiers '05**

Publisher: Australian Computer Society, Inc.

Full text available: 📄 pdf(191.31 KB)   Additional Information: full citation, abstract, references, index terms

> Robust technological enforcement of DRM licenses assumes that the prevention of direct access to the raw bit representation of decrypted digital content and the license enforcement mechanisms themselves is possible. This is difficult to achieve on an open computing platform such as a PC. Recent trusted computing initiatives namely, the Trusted Computing Group (TCG) specification, and Microsoft's Next Generation Secure Computing Base (NGSCB) aim in part to address this problem. The protection arc ...

8 A Self-Organizing Flock of Condors
Ali Raza Butt, Rongmei Zhang, Y. Charlie Hu
November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society
Full text available: 📄 pdf(305.08 KB)   Additional Information: full citation, abstract

> Condor provides high throughput computing by leveraging idle-cycles on off-the-shelf desktop machines. It also supports flocking, a mechanism for sharing resources among Condor pools. Since Condor pools distributed over a wide area can have dynamically changing availability and sharing preferences, the current flocking mechanism based on static configurations can limit the potential of sharing resources across Condor pools. This paper presents a technique for resource discovery in distributed Co ...

9 General storage protection techniques: Securing distributed storage: challenges, techniques, and systems
Vishal Kher, Yongdae Kim
November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**
Publisher: ACM Press
Full text available: 📄 pdf(294.61 KB)   Additional Information: full citation, abstract, references, index terms

> The rapid increase of sensitive data and the growing number of government regulations that require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security issues related to storage and present a comprehensive survey of the security services provided by the existing storage systems. We cover a broad range of the storage security literature, present a critical review of the existing solutions, compare ...
>
> **Keywords:** authorization, confidentiality, integrity, intrusion detection, privacy

10 Design of a distributed comptuer security lab
T. Andrew Yang, Kwok-Bun Yue, Morris Liaw, George Collins, Jayaraman T. Venkatraman, Swati Achar, Karthik Sadasivam, Ping Chen
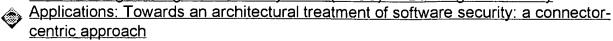October 2004 **Journal of Computing Sciences in Colleges**, Volume 20 Issue 1
Publisher: Consortium for Computing Sciences in Colleges
Full text available: 📄 pdf(459.84 KB)   Additional Information: full citation, abstract, references

> Across the US and the rest of the world, there exists a lack of computer security components in many CS/IT curricula. For those programs that do have such components in computer security, a common difficulty is to integrate "real-world" labs into the courses, in order to provide hands-on experiences to the learners. Due to concerns for security breaches and network hacking, system administrators are reluctant to allow computer security labs involving network sniffing, virus scripting, etc. to be ...

11 Software Engineering for Secure Systems (SESS) --- Building Trustworthy Applications: Towards an architectural treatment of software security: a connector-centric approach
Jie Ren, Richard Taylor, Paul Dourish, David Redmiles
May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 workshop on Software engineering for secure systems—building**

trustworthy applications SESS '05, Volume 30 Issue 4
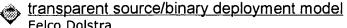**Publisher:** ACM Press
Full text available: pdf(334.15 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Security is a very important concern for software architecture and software components. Previous modeling approaches provide insufficient support for an in-depth treatment of security. This paper argues for a more comprehensive treatment based on software connectors. Connectors provide a suitable vehicle to model, capture, and enforce security. Our approach models security principal, privilege, trust, and context of architectural constituents. Extending our existing architecture description lang ...

Keywords: secure software connector, security, software architecture

12 <u>Configuration management & security: Secure sharing between untrusted users in a</u>
<u>transparent source/binary deployment model</u>
Eelco Dolstra
November 2005 **Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05**
Publisher: ACM Press
Full text available: pdf(276.98 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The Nix software deployment system is based on the paradigm of *transparent source/binary deployment*: distributors deploy descriptors that build components from source, while client machines can transparently optimise such source builds by downloading pre-built binaries from remote repositories. This model combines the simplicity and flexibility of source deployment with the efficiency of binary deployment. A desirable property is *sharing* of components: if multiple users install fro ...

Keywords: configuration management, hash rewriting, secure sharing, security, software deployment, source deployment

13 <u>Network security metrics: A weakest-adversary security metric for network</u>
<u>configuration security analysis</u>
Joseph Pamula, Sushil Jajodia, Paul Ammann, Vipin Swarup
October 2006 **Proceedings of the 2nd ACM workshop on Quality of protection QoP '06**
Publisher: ACM Press
Full text available: pdf(646.37 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

A security metric measures or assesses the extent to which a system meets its security objectives. Since meaningful quantitative security metrics are largely unavailable, the security community primarily uses qualitative metrics for security. In this paper, we present a novel quantitative metric for the security of computer networks that is based on an analysis of attack graphs. The metric measures the security strength of a network in terms of the strength of the weakest adversary who can succe ...

Keywords: attack graphs, exploit, network security, quantitative measure, security metric, vulnerability

14 <u>Applications 2: Implementation and performance evaluation of CONFLEX-G: grid-</u>
<u>enabled molecular conformational space search program with OmniRPC</u>
Yoshihiro Nakajima, Mitsuhisa Sato, Hitoshi Goto, Taisuke Boku, Daisuke Takahashi
June 2004 **Proceedings of the 18th annual international conference on Supercomputing**
Publisher: ACM Press
Full text available: pdf(256.17 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

CONFLEX-G is the grid-enabled version of a molecular conformational space search program called CONFLEX. We have implemented CONFLEX-G using a grid RPC system

called OmniRPC. In this paper, we report the performance of CONFLEX-G in a grid testbed of several geographically distributed PC clusters. In order to explore many conformation of large bio-molecules, CONFLEX-G generates trial structures of the molecules and allocates jobs to optimize a trial structure with a reliable molecular mechanics m ...

Keywords: CONFLEX-G, OmniRPC, computational chemistry, conformational space search, grid RPC system, grid computing

15 Paranoid Penguin: The 101 Uses of OpenSSH: Part I

Mick Bauer
January 2001 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: [icon] html(20.92 KB)   Additional Information: full citation, references, index terms

16 Beowulf and Linux: an integrated project course

Robert Montante
May 2002 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 6

Publisher: Consortium for Computing Sciences in Colleges

Full text available: [icon] pdf(192.08 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes an experimental, integrated project course. The theme of the course is the Beowulf computing cluster, a parallel computing system emphasizing inexpensive hardware and software. Beowulf clusters are thoroughly described in references [1] through [5], and elsewhere. The integrated project involves assembling the cluster hardware, installing and configuring the operating system, networking, and application software, and conducting parallel-programming activities on the complete ...

17 Paranoid penguin: Linux VPN technologies

Mick Bauer
February 2005 **Linux Journal**, Volume 2005 Issue 130

Publisher: Specialized Systems Consultants, Inc.

Full text available: [icon] html(20.94 KB)   Additional Information: full citation, abstract, index terms

¿

18 Remote access internetworking laboratory

Sung Yoo, Scott Hovis
March 2004 **ACM SIGCSE Bulletin , Proceedings of the 35th SIGCSE technical symposium on Computer science education SIGCSE '04**, Volume 36 Issue 1

Publisher: ACM Press

Full text available: [icon] pdf(205.25 KB)   Additional Information: full citation, abstract, references, citings, index terms

College students in computer networking courses are very interested in Internet technology because of the rapid growth in that area. Of particular interest is the need for practical experience in network design and configuration. A typical computer networking class curriculum includes the study of theory and the laboratory projects. The laboratory projects are designed to give students a better understanding of computer networks. Most of the laboratory projects are software projects. Furthermore ...

Keywords: computer networking, internetworking lab, remote access lab

19 File and storage systems: Decentralized user authentication in a global file system

Michael Kaminsky, George Savvides, David Mazieres, M. Frans Kaashoek
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available: pdf(144.43 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach to user authentication across administrative domains is for users to prove their identities through a chain of certificates. Certificates allow for general forms of delegation, but they often require more infrastructure than is necessary to sup ...

Keywords: ACL, SFS, authentication, authorization, credentials, file system, groups, users

20 <u>Paranoid penguin: an introduction to FreeS/WAN, Part II</u>

Mick Bauer

February 2003 **Linux Journal**, Volume 2003 Issue 106

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(17.08 KB)   Additional Information: <u>full citation</u>, <u>index terms</u>

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1 Security: SECA: security-enhanced communication architecture   ▨

Joel Coburn, Srivaths Ravi, Anand Raghunathan, Srimat Chakradhar
September 2005 **Proceedings of the 2005 international conference on Compilers,
              architectures and synthesis for embedded systems CASES '05**
Publisher: ACM Press
Full text available: 📄 pdf(396.53 KB)   Additional Information: full citation, abstract, references, index terms

> In this work, we propose and investigate the idea of enhancing a System-on-Chip (SoC)
> communication architecture (the fabric that integrates system components and carries the
> communication traffic between them) to facilitate higher security. We observe that a wide
> range of common security attacks are manifested as abnormalities in the system-level
> communication traffic. Therefore, the communication architecture, with its global system-
> level visibility, can be used to detect them. The communicati ...
>
> **Keywords:** AMBA Bus, access control, architecture, attacks, bus, communication, digital
> rights management (DRM), intrusion detection, security, security-aware design, small
> embedded systems, system-on-chip (SoC)

2 M1-E: ad-hoc - routing protocols: TARP: trust-aware routing protocol   ▨

L. Abusalah, A. Khokhar, G. BenBrahim, W. ElHajj
July 2006 **Proceeding of the 2006 international conference on Communications and
            mobile computing IWCMC '06**
Publisher: ACM Press
Full text available: 📄 pdf(357.77 KB)   Additional Information: full citation, abstract, references, index terms

> Security is a critical issue in a mobile ad hoc network (MANET). In most of the previous
> protocols security is an added layer above the routing protocol. We propose a Trust-Aware
> Routing Protocol (TARP) for secure-trusted routing in mobile ad hoc networks. In TARP,
> security is inherently built into the routing protocol where each node evaluates the trust
> level of its neighbors based on a set of attributes and determines the route based on
> these attributes. This paper evaluates the proposed TARP ...
>
> **Keywords:** ad hoc, aware routing, encryption, power, trust

3 DRM experience: Digital rights management in a 3G mobile phone and beyond   ▨

Thomas S. Messerges, Ezzat A. Dabbish
October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management
              DRM '03**
Publisher: ACM Press
Full text available: 📄 pdf(306.59 KB)   Additional Information: full citation, abstract, references, citings, index

In this paper we examine how copyright protection of digital items can be securely managed in a 3G mobile phone and other devices. First, the basic concepts, strategies, and requirements for digital rights management are reviewed. Next, a framework for protecting digital content in the embedded environment of a mobile phone is proposed and the elements in this system are defined. The means to enforce security in this system are described and a novel "Family Domain" approach to content management ...

Keywords: MPEG-21, copyright protection, cryptography, digital content, digital rights management, embedded system, key management, mobile phone, open mobile alliance, security

4 Can GRID services provide answers to the challenges of national health information sharing?
I. Bilykh, Y. Bychkov, D. Dahlem, J. H. Jahnke, G. McCallum, C. Obry, A. Onabajo, C. Kuziemsky
October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(964.34 KB)   Additional Information: full citation, abstract, references, index terms

It has been widely recognized that one of the keys to cost reduction and service improvement in national health care lies in the integration of medical information system. Integration of information can not only improve care delivery today, but it can also help build research bases to enhance future care delivery. The question is how to achieve such integration? Imposing a single client software solution or common clinical terminology does not appear likely to happen. That lack of single softwar ...

5 Component-based interchangeable cryptographic architecture for securing wireless connectivity in Java^{TM} applications
Johnny Li-Chang Lo, Judith Bishop
September 2003 **Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology SAICSIT '03**
Publisher: South African Institute for Computer Scientists and Information Technologists
Full text available: pdf(147.85 KB)   Additional Information: full citation, abstract, references, index terms

The development of Java based wireless applications presents challenges such as securing communication and authentication between mobile devices and a server. It is acknowledged that cryptography is commonly used to secure network communications and provide authentication functionality. However, due to the nature of mobile devices such as cellular phones and personal digital assistants, the application of cryptography on a software level in Java wireless applications can slow down the execution ...

Keywords: component, cryptography, general packet radio services, global system for mobile applications, mobile devices, protocols, separation of concerns, wireless application protocol, wireless transport layer security

6 How to prove where you are: tracking the location of customer equipment
Eran Gabber, Avishai Wool
November 1998 **Proceedings of the 5th ACM conference on Computer and communications security**
Publisher: ACM Press
Full text available: pdf(1.01 MB)   Additional Information: full citation, references, citings, index terms

7
Software security and privacy risks in mobile e-commerce

Anup K. Ghosh, Tara M. Swaminatha
February 2001 **Communications of the ACM**, Volume 44 Issue 2
Publisher: ACM Press
Full text available: pdf(90.58 KB)
html(38.81 KB)   Additional Information: full citation, references, citings, index terms

8 Online course computer science student presentations online
Cliff Layton
April 2005 **Journal of Computing Sciences in Colleges**, Volume 20 Issue 4
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(126.91 KB)   Additional Information: full citation, abstract, references, index terms

> Computer Science and other courses involving live (or prerecorded) student presentations
> have been difficult to offer online, especially when presenting and non-presenting
> students are located considerably geographically distant from a physical campus of the
> offering institution or can not meet at specified times. This paper will consider tools and
> techniques supporting online course Computer Science (or other) student presentations
> and attendance, significantly including situations in which stu ...

9 Means and Methods for Collecting and Analyzing QoE Measurements in Wireless
Networks
David Soldani
June 2006 **Proceedings of the 2006 International Symposium on on World of**
          Wireless, Mobile and Multimedia Networks WOWMOM '06
Publisher: IEEE Computer Society
Full text available: pdf(438.87 KB)   Additional Information: full citation, abstract, index terms

> Two practical approaches are possible for QoE monitoring: Service performance
> measurements using statistical samples; and network management system (NMS) using
> QoS parameters. This paper introduces both methodologies. Fundamental QoE
> performance metrics are presented and the statistical confidence on measured data is
> discussed. The proposed method for collecting service level metrics makes use of a mobile
> QoS agent (MQA) installed in handsets. An MQA is described and validated in a real 3GSM
> net ...

10 Mobile computing and applications (MCA): A declarative framework for adaptable
applications in heterogeneous environments
P. Inverardi, F. Mancinelli, M. Nesi
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(242.30 KB)   Additional Information: full citation, abstract, references

> In this paper we present an approach for developing adaptable software applications. The
> problem we are facing is that of a (possibly mobile) user who wants to download and
> execute an application from a remote server. The user's hosting device can be of different
> kinds (laptops, personal digital assistants, cellular phones, communicators, etc.) with
> specific hardware and software capabilities. The problem is to be able to decide whether
> the user's current device characteristics are compatible wi ...

11 Defending wireless infrastructure against the challenge of DDoS attacks
Xianjun Geng, Yun Huang, Andrew B. Whinston
June 2002 **Mobile Networks and Applications**, Volume 7 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(313.57 KB)   Additional Information: full citation, abstract, references, citings, index
                                                                              terms

> This paper addresses possible Distributed Denial-of-Service (DDoS) attacks toward the
> wireless Internet including the Wireless Extended Internet, the Wireless Portal Network,

and the Wireless Ad Hoc network. We propose a conceptual model for defending against DDoS attacks on the wireless Internet, which incorporates both cooperative technological solutions and economic incentive mechanisms built on usage-based fees. Cost-effectiveness is also addressed through an illustrative implementation sche ...

Keywords: DDoS attack, PBN, wireless ad hoc network, wireless extended internet, wireless infrastructure, wireless portal network

12 A secure low-power approach for providing mobile encryption
Michael E. Gruen
June 2006 **Journal of Computing Sciences in Colleges**, Volume 21 Issue 6
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(148.02 KB)   Additional Information: full citation, abstract, index terms

Despite advancing technology, most mobile embedded devices (i.e. PDAs and cellphones) have weak wireless communication security. While some of the more powerful mobiles can perform public-key encryption, many devices are left with paltry, if any, encryption capabilities. In the marketplace, battery life and size concerns trump security. However, as our world increasingly relies on these devices for sensitive data (banking, business and financial correspondence, payments, etc.) and on the instant ...

13 Interactive systems in public places: Contextualizing mobile IT
Jörn Messeter, Eva Brandt, Joachim Halse, Martin Johansson
August 2004 **Proceedings of the 2004 conference on Designing interactive systems: processes, practices, methods, and techniques**
Publisher: ACM Press
Full text available: pdf(223.92 KB)   Additional Information: full citation, abstract, references, citings, index terms

Information and communication technologies are moving into the era of ubiquitous computing, with increased density of technology and increased mobility and continuity in use. From a design perspective, addressing the accommodation and coordination of multiple devices and services in situated use across different contexts is becoming increasingly important. In the COMIT project, ethnographic fieldwork has been combined with participatory design engaging users, designers and researchers in order t ...

Keywords: contextual factors, ethnography, mobile technology, participatory design, use qualities

14 Securing Name Servers on UNIX
Nalneesh Gaur
December 1999 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(14.66 KB)   Additional Information: full citation, abstract, references, index terms

Because the DNS plays such a vital role in the Internet, it is important that this service be protected and secured

15 Stealth e-mail to the rescue
Peter Ziobrzynski
March 2006 **Linux Journal**, Volume 2006 Issue 143
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(20.19 KB)   Additional Information: full citation, abstract, index terms

A sneaky way to get to your personal e-mail server from work.

16 Abstract Personal Communications Manager (APCM)
Konrad Froitzheim

April 1992 **Proceedings of the 1992 ACM annual conference on Communications**
Publisher: ACM Press
Full text available: 📄 pdf(577.28 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The Abstract Personal Communications Manager (APCM) is an Application programmers Interface (API) for telecommunications, providing simple and powerful interaction between communication applications and protocol software for circuit switched connections and transmission of voice and data. A few generic service primitives are developed through abstraction of the various call control operations.

17 <u>Tutorials: Rules of thumb for secure software engineering</u>

Holger Peine
May 2005 **Proceedings of the 27th international conference on Software engineering ICSE '05 , Proceedings of the 27th international conference on Software engineering ICSE '05**
Publisher: ACM Press, IEEE Computer Society
Full text available: 📄 pdf(146.41 KB)
📄 <u>Publisher Site</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

No abstract available

Keywords: secure software, software engineering, software security

18 <u>OOPSLA practitioner reports chair's welcome: Secure trade lane: a sensor network solution for more predictable and more secure container shipments</u>

Steffen Schaefer
October 2006 **Companion to the 21st ACM SIGPLAN conference on Object-oriented programming languages, systems, and applications OOPSLA '06**
Publisher: ACM Press
Full text available: 📄 pdf(520.95 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Due to globalization and especially with China becoming the world's production center, global trade is strongly increasing. The vast majority of all goods are shipped in ocean-going containers. Secure Trade Lane (STL) is a solution for making container shipments more predictable and more secure. The solution comprises an embedded controller that is mounted on ocean-going containers, and a sophisticated backend communicating with the embedded controller and integrating all trading partners. Both ...

Keywords: EPCglobal, GPRS, GPS, TREC, WCO, WSC, ZigBee, container tracking, embedded controller, mote, satellite communication, secure trade lane, sensor network

19 <u>Applications, services, and architecture: Smart edge server: beyond a wireless access point</u>

G. Manjunath, T. Simunic, V. Krishnan, J. Tourrilhes, D. Das, V. Srinivasmurthy, A. McReynolds
October 2004 **Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots**
Publisher: ACM Press
Full text available: 📄 pdf(410.68 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Wireless access at cafes, airports, homes and businesses have proliferated all over the globe with several different Wireless Internet Service Providers. Similarly, digital media has created a paradigm shift in media processing resulting in a complete change in media usage models, revamped existing businesses and has introduced new industry players. We believe there is a tremendous opportunity for application and system services at the intersection of the above two domains for exploiting the ...

Keywords: access point, low-power, management, media, security, wireless

20 DIM security and authentication: Authentication using multiple communication channels

Shintaro Mizuno, Kohji Yamada, Kenji Takahashi
November 2005 **Proceedings of the 2005 workshop on Digital identity management DIM '05**
Publisher: ACM Press
Full text available: pdf(3.02 MB)   Additional Information: full citation, abstract, references, index terms

We discuss an authentication method using multiple communication channels. This method enables on-line service providers to strongly authenticate their users on a non-trusted communication channel (e.g. using a kiosk PC in an Internet café to access the Internet) via trusted communication channels (e.g. a mobile phone network). For the illustration purpose, we use a commonly available configuration in the current marketplace, in which users access service providers through PCs over the Inte ...

Keywords: authentication, internet, mobile phone, multiple channels

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1 Quiet calls: talking silently on mobile phones

Les Nelson, Sara Bly, Tomas Sokoler

March 2001 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: 📄 pdf(492.32 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Quiet Calls is a technology allowing mobile telephone users to respond to telephone conversations without talking aloud. QC-Hold, a Quiet Calls prototype, combines three buttons for responding to calls with a PDA/mobile phone unit to silently send pre-recorded audio directly into the phone. This permits a mixed-mode communication where callers in public settings use a quiet means of communication, and other callers experience a voice telephone call. An evaluation of QC-Hold shows that it is ...

Keywords: computer mediated communication, hand-held devices, interaction design, mobile computing, telecommunication

2 Mobility and sociability: Meeting in quiet: choosing suitable notification modalities for mobile phones

Daniel Fallman, Björn Yttergren

November 2005 **Proceedings of the 2005 conference on Designing for User eXperience DUX '05**

Publisher: AIGA: American Institute of Graphic Arts

Full text available: 📄 pdf(117.14 KB)   Additional Information: full citation, abstract, references

This project starts out from one of those awkward moments when one's mobile phone sets off with a loud noise in situations one would definitely not want it to; e.g. at the opera or in an important meeting. The design challenge is how a mobile phone, as a computer device that appears in several different human contexts, could come to adapt its behavior to the situation. Is there a way for a mobile phone to know, or at least have a clue, which notification modality would be the most appropriate?Ou ...

Keywords: context aware, design, magnetic link, mobile phones, mobility, near-field communication, notification modality

3 Architectures: 3D graphics LSI core for mobile phone "Z3D"

Masatoshi Kameyama, Yoshiyuki Kato, Hitoshi Fujimoto, Hiroyasu Negishi, Yukio Kodama, Yoshitsugu Inoue, Hiroyuki Kawai

July 2003 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS conference on**

Graphics hardware
Publisher: Eurographics Association
Full text available: pdf(649.83 KB)   Additional Information: full citation, abstract, references

In this paper we describe the architecture of the 3D graphics LSI core for mobile phone "Z3D". The major 3D graphics applications on mobile phones are character animation and games. While a character animation or a game is running, the CPU has to be used for the communication to the center machine and CPU clock frequency is low. Therefore, the requirement of Z3D is small, low power, and CPU free. The pipeline of Z3D is composed of a geometry engine, rendering engine, and pixel engine. Generally, ...

Keywords: graphics accelerator, graphics hardware, rendering hardware

4 Graphics 2: User experiences with mobile phone camera game interfaces
Sam Bucolo, Mark Billinghurst, David Sickinger
December 2005 **Proceedings of the 4th international conference on Mobile and ubiquitous multimedia MUM '05**
Publisher: ACM Press
Full text available: pdf(337.68 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents the findings of a comparative study investigating different input interfaces for a mobile phone games application. A standard mobile phone joystick interface is compared with a phone camera interface to detect the phone translation and tilt to control a ball's movement within various levels of difficulty of a virtual maze game. Game completion times together with the resultant user experience for each of the games was collected during the studies. Results indicate that the jo ...

Keywords: human interaction, mobile camera phones, mobile games, novel interfaces, tangible interfaces

5 Configuring the Mobile User: Sociological and Industry Views
N. Green, R. H. R. Harper, G. Murtagh, G. Cooper
January 2001 **Personal and Ubiquitous Computing**, Volume 5 Issue 2
Publisher: Springer-Verlag
Full text available: pdf(123.49 KB)   Additional Information: full citation, abstract, index terms

This article considers the role of the consumer in the diffusion of mobile telecommunications technologies. There is presently little research on the consumption and use of mobile technologies, and the aim of the present paper is to facilitate discussion about the way consumer behaviour is currently understood in industry and academia. The paper considers key themes in social science research on mobile ICTs, and understandings of the consumer held by those in the mobile industry. Bringing these ...

6 Minimizing queuing delays and number of messages in mobile phone location
David Goodman, P. Krishnan, Binay Sugla
August 1996 **Mobile Networks and Applications**, Volume 1 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(389.39 KB)   Additional Information: full citation, abstract, references, citings, index terms

The mobility of phones in a cellular or Personal Communication Services (PCS) environment introduces the prob- lem of efficiently locating the called phone. In this paper, we present an analysis of the delay and number of messages transmitted in different sequential and parallel search strategies, considering for the first time the issue of queuing on radio paging channels. Our analysis shows that parallel search may not reduce the time to find a mobile phone if the parameters of the system ...

7 Generating mobile device user interfaces for diagram-based modelling tools
Dejin Zhao, John Grundy, John Hosking

January 2006 **Proceedings of the 7th Australasian User interface conference - Volume 50 AUIC '06**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(1.55 MB)   Additional Information: full citation, abstract, references, index terms

Mobile display devices such as phones and PDAs have become very widely available and used. However, most content on these devices is limited to text, static images and motion video. Displaying and interacting with dynamic diagrammatic content on such devices is difficult, as is engineering applications to implement such functionality. We describe a set of plug-in components for a meta-diagramming tool that enable a diagram type to be visualized and interacted with on mobile devices. Key features ...

Keywords: collaborative design, diagrams on mobile phones, mobile user interfaces

8   Graphics 2: Mobile phone based AR scene assembly
Anders Henrysson, Mark Ollila, Mark Billinghurst
December 2005 **Proceedings of the 4th international conference on Mobile and ubiquitous multimedia MUM '05**
Publisher: ACM Press
Full text available: pdf(193.31 KB)   Additional Information: full citation, abstract, references

In this paper we describe a mobile phone based Augmented Reality application for 3D scene assembly. Augmented Reality on mobile phones extends the interaction capabilities on such handheld devices. It adds a 6 DOF isomorphic interaction technique for manipulating 3D content. We give details of an application that we believe to be the first where 3D content can be manipulated using both the movement of a camera tracked mobile phone and a traditional button interface as input for transformations. ...

Keywords: CAD, augmented reality, mobile phone

9   Implementation and management of a mobile phone filtering system
Jyhi-Kong Wey, Pen-Kuan Huang, Hui-Chi Chang, Jiu-Yang Liu
May 2000 **International Journal of Network Management**, Volume 10 Issue 3
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(277.17 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents the system design and network management of a mobile phone filtering system (MOFIS) for filtering clones of cellular international calls by an IN-based service node approach. Copyright © 2000 John Wiley & Sons, Ltd.

10   RFID: tagging the world: Spontaneous marriages of mobile devices and interactive spaces
Trevor Pering, Rafael Ballagas, Roy Want
September 2005 **Communications of the ACM**, Volume 48 Issue 9
Publisher: ACM Press
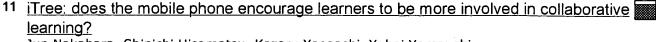Full text available: pdf(410.76 KB)
html(32.40 KB)   Additional Information: full citation, abstract, references, index terms

Configuring themselves through Elope middleware, tagged physical objects and rooms let users seamlessly integrate their content and invoke services.

11   iTree: does the mobile phone encourage learners to be more involved in collaborative learning?
Jun Nakahara, Shinichi Hisamatsu, Kazaru Yaegashi, Yuhei Yamauchi
May 2005 **Proceedings of th 2005 conference on Computer support for collaborative learning: learning 2005: the next 10 years! CSCL '05**
Publisher: International Society of the Learning Sciences
Full text available: pdf(317.44 KB)   Additional Information: full citation, abstract, references

A web-based collaborative learning sites has the bulletin board system (BBS) and allow learners to interact, exchange information, engage in discussion, and collaborate on projects. This paper outlines the development and evaluation of iTree, a Java mobile phone application that encourages learners to participate in online BBS forums. In essence, the application reminds the students of their level of participation in a class BBS forum via an image on the wallpaper on their mobile phones. Posting ...

Keywords: collaborative learning, discussion, e-learning, mobile phone

12 Mobile computing and applications (MCA): Alternative source coding model for mobile text communication
Takehiro Nakayama
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(139.87 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a new source coding model for the efficient transmission of mobile text messages. Unlike conventional text messages, which are sent in the form of character sequences, the proposed method uses key-code sequences that reflect the user's typing history for authoring the message. The key-code representation can be as efficient as 4 bits per key-code by utilizing existing dictionary-based text entry systems and mobile phones equipped with the standard reduced keyboard. Experiment ...

Keywords: WYTIWYS, dictionary, entropy, mobile phone, source coding

13 Mobile services and technology track: SmartRestaurant: mobile payments in context-aware environment
Janne Lukkari, Jani Korhonen, Timo Ojala
March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**
Publisher: ACM Press
Full text available: pdf(408.85 KB)   Additional Information: full citation, abstract, references, index terms

Mobility, context-awareness and payment combined provide a customer with a completely new setting of consuming services at any time and any place. We introduce SmartRestaurant service, which allows customers to use mobile devices for ordering and paying lunches from a nearby campus restaurant beforehand. Further, SmartRestaurant provides the restaurant with means of adjusting the sales with production capacity and prior knowledge of upcoming orders. We present a user evaluation of the system in ...

Keywords: B2C, context-aware, indirect mCommerce, mobile payment

14 From methods to design: Voice-mail diary studies for naturalistic data capture under mobile conditions
Leysia Palen, Marilyn Salzman
November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work**
Publisher: ACM Press
Full text available: pdf(224.85 KB)   Additional Information: full citation, abstract, references, citings, index terms

Mobile technology requires new methods for studying its use under realistic conditions "in the field." Reflexively, mobile technology also creates new opportunities for data collection while participants are remotely located. We report on our experiences with a variation on the paper-based diary study technique, which we extend by using voice-mail paired with mobile and landline telephony to more easily collect data in natural situations. We discuss lessons learned from experiences with voice-ma ...

Keywords: CSCW, HCI, diary study, mobile computing, mobility, naturalistic study, phones, usability, voice-mail

15 Interactive systems in public places: Contextualizing mobile IT

Jörn Messeter, Eva Brandt, Joachim Halse, Martin Johansson

August 2004 **Proceedings of the 2004 conference on Designing interactive systems: processes, practices, methods, and techniques**

Publisher: ACM Press

Full text available: pdf(223.92 KB)   Additional Information: full citation, abstract, references, citings, index terms

Information and communication technologies are moving into the era of ubiquitous computing, with increased density of technology and increased mobility and continuity in use. From a design perspective, addressing the accommodation and coordination of multiple devices and services in situated use across different contexts is becoming increasingly important. In the COMIT project, ethnographic fieldwork has been combined with participatory design engaging users, designers and researchers in order t ...

Keywords: contextual factors, ethnography, mobile technology, participatory design, use qualities

16 (Special session) embedded tutorial + reguler session: embedded system applications: Toward mobile phone Linux

Yukikazu Nakamoto

January 2004 **Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair ASP-DAC '04 , Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair ASP-DAC '04**

Publisher: IEEE Press , IEEE Press

Full text available: pdf(201.73 KB)

Publisher Site   Additional Information: full citation, abstract, references

Recently mobile phones provide not only voice service but internet access, multi-media message services, games, local communication controllers and so on. Therefore, more productive software platforms are required. We have developed the next generation software platform based on Linux for mobile phones. In this paper, we describe requirements for mobile phone Linux and solution candidate technologies to satisfy the requirements based on the development experience.

17 Mobile applications: Metadata creation system for mobile images

Risto Sarvas, Erick Herrarte, Anita Wilhelm, Marc Davis

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

Full text available: pdf(564.05 KB)   Additional Information: full citation, abstract, references, citings, index terms

The amount of personal digital media is increasing, and managing it has become a pressing problem. Effective management of media content is not possible without content-related metadata. In this paper we describe a content metadata creation process for images taken with a mobile phone. The design goals were to automate the creation of image content metadata by leveraging automatically available contextual metadata on the mobile phone, to use similarity processing algorithms for reusing shared me ...

Keywords: automated content metadata, content-based image retrieval, digital image management, mobile camera phones, wireless multimedia applications

18 Mobile and wireless games: Programming interactive real-time games over WLAN for

pocket PCs with J2ME and .NET CF
Andreas Janecek, Helmut Hlavacs
October 2005 **Proceedings of 4th ACM SIGCOMM workshop on Network and system support for games NetGames '05**
Publisher: ACM Press
Full text available: pdf(144.06 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we compare the Java 2 Micro Edition and the .NET Compact Framework with respect to their performance for programming multiplayer games for PDAs. We benchmark results for both platforms dealing with computational capabilities and communication performance over WLAN. We also have developed a simple prototypical multiplayer game called 3D-Pong and evaluate how simple resilience mechanisms can hide WLAN packet losses for this game.

Keywords: .NET compact framework, Java micro edition, PocketPC, WLAN, interactive real-time games

19 Mobile computing and applications (MCA): MIRES: an information exchange system for mobile phones
Qing Li, Xiang Li, Jian Zhai, Liu Wenyin
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(222.23 KB)   Additional Information: full citation, abstract, references, index terms

Mobile computing has been studied in the past few years on many respects: adaptive application, mobility model, data access and so on. However, most research aim at a general computing framework but not focus on a specific device, for example, mobile phone. Mobile phones are special due to some constraints compared with other devices and they currently serve as no more than passive terminals to a large extent. At the same time, mobile phones are probably the most popular device today. This paper ...

Keywords: distributed data management, mobile resource sharing

20 Papers: Mobile text entry using three keys
Scott MacKenzie
October 2002 **Proceedings of the second Nordic conference on Human-computer interaction NordiCHI '02**
Publisher: ACM Press
Full text available: pdf(198.85 KB)   Additional Information: full citation, abstract, references, citings, index terms

Six techniques for three-key text entry are described. The techniques use Left- and Right-arrow keys to maneuver a cursor over a linear sequence of characters, and a Select key to select characters. The keystrokes per character (*KSPC*) for the methods varies from 10.66 to 4.23. Two techniques were chosen for formal evaluation. Method #2 positions characters in alphabetical order, while Method #6 uses linguistic enhancement to reorder characters following each entry to minimize the cursor d ...

Keywords: linguistically enhanced text entry, mobile text entry, text entry performance evaluations, typamatic keying

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